COST ASSUMPTIONS/INFORMATION

For pricing purposes, the following assumptions for the identified WBS elements shall be used:

C.6.1 Main Plant Process Building Demolition and Removal

Following are assumptions to be utilized by Offerors for the starting conditions of the Main Plant Process Building:

Main Plant Process Building - Summary of Beginning Condition

Notes:

1. Rooms stripped of piping may have residual piping stubs extending 6 inches or more from the wall.
2. Original through-wall "S-shaped" piping penetrations with Unibestos insulation remain in walls, floors, and ceilings.
3. Original through-wall straight piping penetrations are not shown to have Unibestos insulation and remain as-is in walls, floors, and ceilings.
4. Residual through-wall piping was originally primed and painted with an epoxy resin. Insulation was originally covered with Vimasco mastic with the ends wrapped with kraft paper.
5. Original paint and primer used in the MPPB remains and may contain lead, asbestos, and potentially other hazardous metals.
6. Some commercial hazardous inventory (e.g. lights PCB ballasts, batteries, lead, printed circuit boards) may remain in some areas of the MPPB.
7. Active utility and service lines that support HLW canister management and demolition remain.
8. Asbestos removal activity for "none" is for accessible friable asbestos insulation material.

	Windows	Liners	Equipment	Piping (See notes 1, 2, 3, 4)	Floor	Walls	Ceiling	Asbestos (See note 8)	RCRA Hazardous
Extraction Cell Areas									
XC-1	None	Pan liner in place	None	None	18" grout on liner	Fixed	Fixed	None	None
XC-2	None	Pan liner in place	None	None	Fixed; no grout	Fixed	Fixed	None	See note 6
XC-3	None	Pan liner in place	None	None	6" grout on liner	Fixed	Fixed	None	See note 6
PPC-N & S	None	Pan liner in place	None	None	Fixed; no grout	Fixed	Fixed	None	None
CAA	None	None	None	None, except for note 7	Fixed by as-is paint	Fixed by as-is paint	Fixed by as-is paint	None	See note 6
W. Stairwell	None	None	None	None	Fixed by as-is paint	Fixed by as-is paint	Fixed by as-is paint	None	See note 6
ULO	None	None	Pumps, valves, piping that support remaining UPC vessels	Drained and in place; 500 lf	Fixed; no grout	Fixed	Fixed	25 lf on residual piping	See note 6
UPC	None	Pan liner in place	2 components: 5D-15A and 5D-15B drained and in place	Drained and in place; 2,000 lf	Fixed; no grout	Fixed	Fixed	None	See note 6
PPH	None	None	None	None	Fixed	Fixed	Fixed	None	See note 6; hydraulic oil contamination below compactor
PPS-AL	None	None	None	None	Fixed	Fixed	Fixed	None	See note 6
XCR	None	None	Supports XC1 operations, MCC #5 remains	None, except for note 7	Fixed by as-is paint	Fixed by as-is paint	Fixed by as-is paint	None	See note 6
PEA	None	None	None	None	Fixed by as-is paint	Fixed by as-is paint	Fixed by as-is paint	None	See note 6

	Windows	Liners	Equipment	Piping (See notes 1, 2, 3, 4)	Floor	Walls	Ceiling	Asbestos (See note 8)	RCRA Hazardous
Acid Recovery SW Corner									
ARPR	None	None; 6" grout on floor in 2001	None	None	6" of grout on floor	Fixed	Fixed	None	See note 6; potential metals under 2001 grout
OGBR	1 in place	4 empty filter cavity liners in place; 1 pan lined pump niche	None	None	Filter recesses and pump niche surfaces fixed	Fixed by as-is paint	Fixed by as-is paint	None	See note 6; Pb in niche covers
OGC	None	Pan liner in place	None	None	12" of grout on liner	Fixed	Fixed	None	See note 6
ARC	None	None; 6" grout on floor in 1967; 3" on floor in 2008	None	None	6" additional grout	Fixed	Fixed	None	Potential metals under 1967 grout
HAC	None	None	None	None	Fixed; no grout	Fixed	Fixed	None	See note 6; possible metals contamination on floor
PCR	None	None	None	None	Fixed; no grout	Fixed	Fixed	None	See note 6
OGA	None	None	None	Original removed by prior WVDP action	Fixed by as-is paint; no grout	Fixed	Fixed	None	See note 6; Pb shielding on N wall; potential metals contamination of NW corner
West Stairwell	None	None	None	None	Fixed by as-is paint	Fixed by as-is paint	Fixed by as-is paint	None	None
South Stairwell	None	None	None	None	Fixed by as-is paint	Fixed by as-is paint	Fixed by as-is paint	None	None

	Windows	Liners	Equipment	Piping (See notes 1, 2, 3, 4)	Floor	Walls	Ceiling	Asbestos (See note 8)	RCRA Hazardous
Shielded Lab Cells									
ADA	None	None	None	Drained; outside fixed; 140 lf; see note 7; piping supports in place	Fixed by as-is paint	Fixed by as-is paint	Fixed by as-is paint	None	See note 6
HC1-5	5 in place as-is	Full liner in place	Manipulators out for HC1-4; doors in place; HC-5 supports SGN operation	Drained; outside fixed; 350 lf	12" of grout on liner	Fixed	Fixed	None	See note 6; Pb shielding and counter weights
2CSC	1 in place as-is	Full liner in place	Manipulators in place; doors in place	Drained; outside fixed; 250 lf	12" of grout on liner	Fixed	Fixed	None	See note 6
SSC	3 in place as-is	Pan liner in place	As-is to support SGN operation	Drained; outside fixed; 500 lf	12" of grout on liner	Fixed	Fixed	None	See note 6
ANA	None	None	None	Drained; outside fixed; 250 lf; piping supports in place	Fixed by as-is paint	Fixed by as-is paint	Fixed by as-is paint	None	See note 6
Analytical Labs	None	None	Misc office and lab equipment in place; fume hoods isolated	Drained and in place; 4,400 lf	Fixed by as-is paint	Fixed by as-is paint	Fixed by as-is paint	467 lf on residual piping	See note 6
XSA	None	None	2 "B" sampling glove boxes remain except for miscellaneous equipment	Drained and in place; 250 lf; piping supports in place; see note 7	Fixed by as-is paint	Fixed by as-is paint	Fixed by as-is paint	None	See note 6
LWC	None	Pan liner in place	10 components flushed, drained, and in place: 3D-2, 4D-8, 4D-10, 4D-13, 7D-2, 7D-8, 7D-14, 13D-7, 13D-8, 3Y-1	None	6" grout on liner	Fixed	Fixed	Gaskets on equipment	See note 6; potential metals contamination on floor

	Windows	Liners	Equipment	Piping (See notes 1, 2, 3, 4)	Floor	Walls	Ceiling	Asbestos (See note 8)	RCRA Hazardous
Head End Cell Areas									
PMC	6 in place	Floor and walls liner in place; decontaminated	Manipulators; in cell lighting; transfer shutter shield in place	None	24" grout on liner	Fixed	Fixed	None	See note 6
MCR	1 in place	None	PMC bridge crane drained, de-energized, and parked	900 lf	12" grout on liner	Fixed	Fixed	None	See note 6
PMC Door Hoist	None	None	Drive drained, de-energized in place, fixed, door in gravity down position	None	None	Fixed	Fixed	None	See note 6
PMCR Extension	2 in place	None	None	None	Fixed	Fixed	Fixed	None	See note 6
PMC-TA	None	None	Transfer trolley and rails in place, fixed, drive unit drained	None	Fixed	Fixed	Fixed	None	See note 6
MRR	1 in place	None	None	None	Fixed	Fixed	Fixed	None	See note 6
RER	None	None	None	None	Fixed	Fixed	Fixed	None	See note 6
E-MOA	None	None	Shear housing; MCC #8 de-energized; PMC-TA remains and fixed	None, except for note 7	Fixed by as-is paint	Fixed	Fixed	None	See note 6
W-MOA	None	None	CPC valve pit equipment drained	None, except for note 7	Fixed by as-is paint	Fixed	Fixed	None	See note 6
N-MOA	None	None	None	None, except for note 7	Fixed by as-is paint	Fixed	Fixed	None	See note 6
GPC	3 in place	Floor and walls liner in place; decontaminated	Manipulators; in cell lighting in place; s. wall cooling rack filled with grout in place	None	28" of grout on floor	Fixed	Fixed	None	See note 6

	Windows	Liners	Equipment	Piping (See notes 1, 2, 3, 4)	Floor	Walls	Ceiling	Asbestos (See note 8)	RCRA Hazardous
Head End Cell Areas, continued									
MC	1 in place	Floor and walls liner in place; decontaminated	Manipulators; shielding shutter in place	None	12" of grout on floor	Fixed	Fixed	None	See note 6
GCR	None	None	Drive drained, de-energized in place, fixed, door in gravity down position	Drained, outside fixed and in-place, 600 lf	6" of grout on floor	Fixed	Fixed	None	See note 6
GCRX	None	None	GPC bridge crane drained, de-energized, and parked	Drained, outside fixed and in-place, 450 lf	6" of grout on floor	Fixed	Fixed; removable hatches in place	None	See note 6
35104 Vault	None	None (tank used as concrete vault form)	35104 tank is drained and in place	Drained and in-place, 300 lf	Inaccessible	Inaccessible	Inaccessible; removable hatches in place	None	See note 6
GOA	None	None	Piping chase support racks in place and fixed	None except for note 7 and station for 35104	Fixed by as-is paint	Fixed by as-is paint	Fixed by as-is paint	None	See note 6
SRR	1 in place	None	Roller conveyor, handling mast inplace, de-energized, fixed, shield door	Drained, outside fixed, 500 lf, supports in place	Fixed; no grout	Fixed	Fixed	None	See note 6
N. Stairwell	None	None	None	None	Fixed by as-is paint	Fixed by as-is paint	Fixed by as-is paint	None	See note 6
Upper and Lower Niches/Aisles									
LWA	None	None	Left in place, active, 2T	Active and in place; 950 lf	Fixed by as-is paint	Fixed by as-is paint	Fixed by as-is paint	None	See note 6
LWA Niches	None	Floor and wall liners in place	None	None	Fixed	Fixed	Shield covers; fixed	None	See note 6
UWA	None	None	Inactive and surplus equipment removed; cooling water header remains	None (includes shielded pipe chase), except for note 7 and cooling water header that remains	Fixed by as-is paint	Fixed by as-is paint	Fixed by as-is paint	None	See note 6
UWA Niches	None	Floor and wall liners in place	None	None	Fixed	Fixed	Shield covers; fixed	None	See note 6
LXA	None	None	Worker platforms remain; drained sample stations in place; 1.5T	None, except for note 7 and cooling water header	Fixed by as-is paint	Fixed by as-is paint	Fixed by as-is paint	None	See note 6

	Windows	Liners	Equipment	Piping (See notes 1, 2, 3, 4)	Floor	Walls	Ceiling	Asbestos (See note 8)	RCRA Hazardous
Fuel Receiving & Storage									
FSP	None	Wall and floor liner in place; 6" grout added in 2002-3	Fuel bridge crane drained, de-energized, and parked; swing arm removed in 2002-3	None	18" additional grout added	Fixed	N/A	Accessible friable removed	See note 6
CUP	None	Wall and floor liner in place; 6" grout added in 2002-3	Cask bridge crane drained, de-energized, and parked	None	18" additional grout added	Fixed	N/A	None	See note 6
WTA	None	Pan liner in place; no grout	None	None	12" grout added	Fixed	N/A	None	See note 6
N&S Concrete Walkways	None	None	None	None	Fixed by as-is paint	N/A	N/A	None	See note 6
Miscellaneous Areas									
1CSC	1 in place	Sampling chamber is a full liner-in-place	Manipulator arm; misc. spent sample items; 23T of interlocking steel shielding in place	Drained, outside fixed, and in place; 310 lf	Sampling chamber internal surface fixed	Fixed	Fixed	None	See note 6
PSC1	None	None	Surplus material removed	None	Fixed	Fixed	Fixed	None	See note 6
PSC2	None	None	Misc. sample hdw in place	Drained, outside fixed, and in place; 250 lf	Fixed	Fixed	Fixed	None	See note 6
PSC3	None	None	Misc. sample hdw in place	Drained, outside fixed, and in place; 250 lf	Fixed	Fixed	Fixed	None	See note 6
Control Room	None	None	Original reprocessing system control console in place and fixed	Drained, outside fixed, and in place; 250 lf	Fixed by as-is paint	Fixed	Fixed	None	See note 6
UXA	None	None	Worker platform; drained A sample stations; MCC #4 in place and fixed; 1.5T	Drained, outside fixed, and in place; 1,500 lf; piping supports in place	Fixed by as-is paint	Fixed by as-is paint	Fixed by as-is paint	None	See note 6

	Windows	Liners	Equipment	Piping (See notes 1, 2, 3, 4)	Floor	Walls	Ceiling	Asbestos (See note 8)	RCRA Hazardous
Excluded Areas (No Demo Prep)									
CCR	1 in place	None	Shield door hoist area operable	In-place; 1,100 lf	As-is	As-is	As-is	As-is	As-is
CPC	4 in place	Pan liner in place	Racks; 275 HLW canisters; 2 evacuation canisters; various high dose waste; bridge crane	In-place; 250 lf	As-is liner	As-is paint	As-is paint	As-is	As-is
EDR	None	Pan liner in place	Bridge crane and shield doors	In-place; 1,000 lf	As-is	As-is	As-is	As-is	As-is
EDR Pit	None	Floor and wall liner in place	None	None	As-is	As-is	As-is	As-is	As-is; see note 6, potential metals contamination on floor
EDR VA	1 in place	None	As-is; for management of HLW canisters	In-place; 300 lf	As-is	As-is	As-is	None	As-is, see note 6
CVA	None, see CPC	Misc. supports remain	None	As-is; 250 lf	As-is	As-is	As-is	None	As-is, see note 6
COA	None	None	As-is in place; 2.3T	As-is in place; 1,900 lf	As-is	As-is	As-is	None	As-is, see note 6
NOA	None	None	As-is; 1.2T	As-is; 450 lf	As-is	As-is	As-is	None	As-is, see note 6
HEV	None	None	Blowers; duct 2 HEPA banks; roughing filters; pre-filters; operable	In place; 360 lf	As-is	As-is	As-is	As-is	As-is; see note 6; Pb shielding in instrument room; filters may contain metal contamination
VWR	None	None	Washer (by-passed) inlet and outlet ducting operable	In place; 1,500 lf	As-is	As-is	As-is	As-is	As-is; see note 6; metals contamination in sediment in washer
VEC	None	None	Blowers, HEPA filter banks operable	In place; 2,100 lf	As-is	As-is	As-is	As-is; 15 lf on residual piping	As-is; see note 6; filters may contain metals
VSR	None	None	Louvered N wall; operable	In place; 500 lf	As-is	As-is	As-is	As-is	As-is, see note 6
ROOFs	N/A	N/A	N/A	N/A	N/A	N/A	N/A	HEV, MSM, PPH, EDR, CVA Hatch, OGA, CPC, SST PumpRm, A&PC Lab, PMC DoorHoist, CR, XCR, VEC have suspect ACM roof material covering about 11,000 ft^2	See note 6; potential Pb flashing

Waste Management and Nuclear Materials

The Offeror will be responsible for the management and/or disposition of waste currently on-site at the time of contract transition. The Offeror will be responsible for the identification, characterization, processing, packaging, transportation, and disposal of any secondary waste that may be generated based on its technical approach.

For pricing purposes, it is assumed that low-level/ mixed low-level radioactive waste may be disposed of off-site at the Nevada National Security Site (NNSS). The disposal rate at NNSS is $14.51/ ft^3, and any waste being disposed of at NNSS will be evaluated using this rate. However, per Section L.5 of the RFP, NNSS disposal costs should not be included in the Offeror's proposed estimated cost. DOE will add the costs associated with NNSS disposal as part of the total evaluated price based on the Offeror's proposed technical approach and the proposed waste disposition paths.

Additionally, Offerors may refer to the Low Level/Mixed Low Level Radioactive and Hazardous Waste Treatment ID/IQ Contracts which may be found at http://www.emcbc.doe.gov/dept/contracting/primecontracts.php.

It is also assumed that there is currently no disposal path for transuranic (TRU) waste, as West Valley Demonstration Project (WVDP) TRU waste has not received a defense determination and is not currently eligible for shipment to the Waste Isolation Pilot Plant (WIPP). However, and as specified in Section C of the Request for Proposal (RFP), the Offeror shall package all TRU waste in accordance with the Waste Acceptance Criteria for the WIPP and the RHTRU and CHTRU waste packaging instructions.

In the table below are the estimated waste volumes in storage on-site at WVDP.

Waste Stream	Total Estimated Volume of waste on June 30, 2011
RCRA/Universal	50 ft^3
Sanitary Waste	0
Industrial Waste	700 ft^3
Low-Level Waste[1]	124,000 ft^3
Mixed Low-Level Waste	7,000 ft^3
Transuranic (TRU)[2, 3]	
Contact Handled (CH) TRU[1,4]	20,000 ft^3
Remote Handled (RH) TRU[1,4]	33,000 ft^3
Mixed CH-TRU	1,000 ft^3
Mixed RH-TRU	8,000 ft^3
HLW	6,900 ft^3
HLW (Liquids/sludges)	
Tank 8D-1[5]	15,000 g
Tank 8D-2[5]	10,000 g
Tank 8D-3[5]	2,000 g

Tank 8D-4	10,000 g
Main Plant Process Bldg Liquid Wastes (Vessels)	
5D15A1	8,000 g
5D15A2	5,000 g
5D15B	8,000 g
7D2	5,000 g
Reuse[6]	4,952 ft^3

Estimate generated April, 2010.

NOTES:

1. Approximately 15,000 ft3 of Legacy waste (8,500ft3 LLW and 4,500ft3 RH-TRU may require a 435.1 waste determination. Waste types may include Vitrification vessels, tank farm pumps, and MPPB wastes.
2. TRU waste is currently expected to be stored on site for the duration of the contract period.
3. Some waste currently identified as TRU was generated from decontamination of Head End Cells. These cells preceded chemical separation of the spent fuel.
4. TRU volumes are estimates before size reduction/repackaging.
5. The contractor is not responsible for the disposal of the liquid wastes in tanks 8D-1, 8D-2, and 8D-3
6. Category includes equipment that is presently being stored in Lag Storage for potential future use. This equipment may be identified as waste at some point prior to June 30, 2011. If categorized as waste at some future point, it is estimated that more than 95% would be LLW, with the remaining being MLLW or industrial waste.